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AMENDMENTS TO THE CLAIMS:

Please cancel claims 9 and 12.

Please amend claims 1 and 10 as follows.

LISTING OF THE CLAIMS

The listing of claims will replace all prior versions, and listings of claims in the application:

- (Amended) An apparatus for measuring resistance to fluid flow from an associated ink cartridge comprising:
 - a fixture adapted to receive the associated ink cartridge therein;
- an ink removal device operatively connected to the fixture through a fluid line for removing ink from the associated ink cartridge in a controlled manner;
- a sensor monitoring flow to the ink removal device and forwarding data relating to such flow to a processor; and
- an air removal device selectively connected to the fluid line via a valve for removing air therefrom, wherein the valve is a three-way valve that is interconnected in the fluid line between the fixture and the ink removal device for selectively purging the fluid line of air.
- (Original) The apparatus of claim 1 wherein the ink removal device is a first syringe.
- (Original) The apparatus of claim 2 further comprising a syringe pump operatively connected to the first syringe for controlling movement of a plunger thereof and thereby controlling removal of ink from the associated ink cartridge.
- 4. (Original) The apparatus of claim 3 wherein the air removal device is a second syringe.
- 5. (Original) The apparatus of claim 2 wherein the air removal device is a second syringe.

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- 6. (Original) The apparatus of claim 1 wherein the air removal device is a second syringe.
- (Original) The apparatus of claim 1 wherein the ink removal device is connected to an internal cavity of the associated ink cartridge through an outlet port thereof.
- 8. (Original) The apparatus of claim 1 wherein the ink removal device includes a variable, pulseless pump.
- 9. (Cancelled) The apparatus of claim 1 wherein the valve is a three-way valve that is interconnected in the fluid line between the fixture and the ink removal device for selectively purging the fluid line of air.
- 10. (Amended) A method of measuring impedance to flow of ink from an ink cartridge with a testing system that includes a fixture for holding the ink cartridge, a pulseless pump operatively connected to the fixture via a fluid line, a sensor including a pressure transducer for monitoring fluid line pressure, and an air removal syringe operatively connected to the fluid line, the method comprising the steps of:

inserting an ink cartridge into a fixture;

removing lnk from an outlet port of the ink cartridge through the fluid line;

monitoring the fluid line with the pressure transducer; and

sending data from the pressure transducer representative of flow through the fluid line to a processor; and

removing air from the testing system after the ink cartridge has been inserted into the fixture.

- 11. (Original) The method of claim 10 comprising the further step of varying a rate of ink removal from the ink cartridge.
- 12. (Cancelled) The method of claim 10 comprising the further step of removing air from the testing system after the ink cartridge has been inserted into the fixture.

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- 13. (Original) The method of claim 10 including the step of developing fluid impedance characteristics of the ink cartridge based on the collected data.
- 14. (Original) A testing apparatus for measuring ink flow characteristics of a cartridge comprising:
 - a fixture dimensioned to receive an associated ink cartridge therein;
- a fluid passage communicating with the fixture at an outlet of the associated ink cartridge;
- a syringe pump operatively associated with the fluid passage for pumping ink from the associated cartridge at a selected flow rate;
- an air removal syringe communicating with the fluid passage for withdrawing air from the system; and
- a pressure transducer monitoring flow through the fluid passage and providing data to a processor for storing and information relating to impedance characteristics of the cartridge.
- 15. (Original) The system of claim 14 further comprising a valve interposed between the air removal syringe and the fluid passage for selectively interconnecting the valve with the system.